

CLAIMS

1. A method of transferring traffic information in units over a wireless digital communications link between a transmitting station and a receiving station comprising the steps of:
- 5 transmitting first information units at a first power level;
monitoring if correct reception of the transmitted units occurred;
and
transmitting second information units associated with the first
10 information units for which first information units the monitoring did not indicate correct reception occurred, at a second power level which is greater than the first power level, the second information units allowing the content of the first information units to be established.
- 15 2. The method of Claim 1 wherein the content of the second information units is the same as the content of the first information units.
3. The method of Claim 1 wherein the units are data frames or packets of data.
- 20 4. The method of Claim 1 wherein monitoring is performed by the transmitting station based on information provided by the receiving station.
5. The method of Claim 1 wherein the first power level is selected to
25 be the lowest level to correspond to a maximum allowable probability of failed first information units transmission and consequent second information units transmission.
6. A digital wireless communications system comprising at least one
30 transmitter having means for transmitting first information units at a first power level;

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at least one receiver having means for receiving the transmitted information units;

control means for controlling the transmitter output power; and

monitoring means for monitoring if correct reception of the transmitted units occurred at the receiver,

wherein the transmitting means transmits second information units associated with the first information units for which first information units the monitoring means does not indicate correct reception has occurred, the second information units being transmitted at a second power level that is greater than the first power level, the second power level being selected by the control means, and wherein the second information units allow the content of the first information units to be established.

7. A transmitter station for digital wireless transmission of traffic information to a receiver, said transmitter station having:

a transmitter for transmitting first information units at a first power level;

control means for controlling the transmitter output power; and

monitoring means for monitoring if correct reception of the transmitted units occurred at the receiver,

wherein the transmitter transmits second information units associated with the first information units for which first information units the monitoring means does not indicate correct reception has occurred, the second information units being transmitted at a second power level that is greater than the first power level, the second power level being selected by the control means, and wherein the second information units allow the content of the first information units to be established.

8. The communication system of Claim 6 wherein the content of the second information units is the same as the content of the first information units.

9. The transmitter station of Claim 7 wherein the content of the second information units is the same as the content of the first information units.

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